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POSITIONS, AREAS, AND COUNTS OF SUNSPOTS
OCTOBER-NOVEMBER-DECEMBER, 1955

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These results are based upon measurements made at the Naval Observatory on plates secured either there or at the Mt. Wilson Observatory. The symbols used for the entries in the successive columns are as follows:

U.T., the epoch of observation in Universal Time.
No., the identifying number of the group assigned by Mt. Wilson.
Δl, the heliographic difference in longitude from the central meridian, measured positive to the west.
φ, the heliographic latitude, measured positive to the north.
ρ, the heliocentric angular distance from the line joining the centers of the Earth and Sun.
A, the true area of the umbra plus penumbra, expressed in millionths of the visible hemisphere.
s, the number of spots.

An asterisk means that no Mt. Wilson number was assigned. Plates secured at the Naval Observatory are indicated by N, and those at Mt. Wilson by M. The plate quality, which follows, is indicated by:

1, Poor; 2, Fair; 3, Good; 4, Very Good; 5, Excellent.

The following five quantities are listed successively at the end of each day, and give for that day:

1. The total number of groups, g.
2. The longitude of the central meridian, L_0.
3. The latitude of the center of the disc, B_0.
4. The total value of A.
5. The total value of s.

The mean daily area and the mean relative sunspot number, $r=10g+s$ are given at the end of the month.

These results are a continuation of those published in the *Monthly Weather Review* from February 1, 1927 to December 31, 1947.

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U.T.	No.	Δl	φ	ρ	A	s
		°	°	°		
1.631	11331	−73	+23	21	582	1
N−3	11330	−53	+30	55	12	1
	11330	−53	+29	55	12	1
	11330	−50	+30	53	24	3
	11330	−49	+29	52	36	1
	11330	−46	+26	48	48	2
	11329	−52	−24	59	24	1
	(3)	(210)	(+7)		738	10
2.630	11334	−83	+21	82	97	1
N−1	11331	−60	+24	61	73	1
	11331	−57	+22	58	485	1
	11329	−43	−25	52	24	1
	11329	−36	−24	46	48	1
	11330	−37	+29	42	24	1
	11330	−36	+29	41	24	1
	11330	−35	+27	39	48	2
	11330	−32	+27	36	24	1
	11330	−31	+27	36	61	1
	11333	−27	+16	29	48	1
	11333	−25	+15	26	24	1
	(5)	(197)	(+7)		980	13
3.577	11334	−67	+20	66	48	1
N−2	11332	−56	+22	57	24	1
	11332	−54	+22	55	24	1
	11331	−49	+24	51	48	1
	11331	−48	+24	50	16	1
	11331	−46	+22	47	485	2
	11329	−30	−24	43	24	1
	11329	−24	−24	39	16	1
	11330	−26	+29	34	61	3
	11330	−19	+26	26	32	1
	11330	−17	+27	26	36	1
	11333	−11	+14	13	24	1
	(6)	(185)	(+7)		838	15
4.576	11335	−70	+18	69	36	1
N−2	11335	−66	+18	65	24	1
	11334	−55	+20	56	36	1
	11332	−45	+22	46	48	1
	11332	−41	+22	43	48	2
	11331	−36	+25	39	97	2
	11331	−35	+23	37	73	1
	11331	−33	+22	35	485	1
	11330	−14	+27	24	12	2
	11330	−13	+30	26	16	1
	11330	−11	+26	22	12	1
	11330	− 5	+27	22	16	1
	11330	− 3	+28	22	36	1
	11333	− 1	+15	8	24	1
	11333	+ 2	+14	7	24	1
	(6)	(171)	(+7)		987	18

U.T.	No.	Δl	φ	ρ	A	s
		°	°	°		
5.581	11335	−56	+18	57	48	2
N−3	11336	−48	+27	52	12	1
	11336	−48	+28	51	12	1
	11334	−42	+20	44	32	1
	11332	−31	+21	34	48	2
	11332	−27	+19	30	24	1
	11332	−25	+21	28	36	2
	11331	−24	+23	28	16	1
	11331	−23	+25	28	48	2
	11331	−23	+22	27	16	1
	11331	−22	+23	26	24	2
	11331	−21	+23	26	48	2
	11331	−18	+22	24	485	1
	11330	+ 3	+25	20	24	1
	11330	+ 4	+24	19	24	2
	11330	+ 5	+25	20	16	1
	11333	+13	+15	15	16	2
	(7)	(158)	(+6)		929	25
6.602	11335	−43	+19	44	16	1
N−3	11336	−36	+27	41	12	1
	11336	−35	+27	40	12	1
	11336	−34	+27	39	16	1
	11334	−27	+20	30	16	1
	11332	−18	+22	24	24	2
	11332	−17	+21	23	24	2
	11331	−11	+23	19	6	2
	11331	−10	+25	22	24	1
	11331	− 7	+23	18	24	1
	11331	− 5	+22	16	485	1
	11330	+18	+25	26	12	1
	11330	+20	+27	28	12	1
	11330	+22	+28	31	16	1
	11330	+24	+28	32	73	3
	(6)	(145)	(+6)		772	20
7.594	11339	−80	−20	83	97	1
N−2	11339	−69	−22	74	97	1
	11336	−24	+28	32	16	1
	11336	−24	+29	33	48	3
	11336	−23	+27	31	24	2
	11336	−22	+27	30	24	1
	11336	−21	+28	30	48	1
	11336	−19	+28	29	73	2
	11334	−13	+21	19	12	1
	11332	− 5	+24	19	6	2
	11332	− 5	+22	16	61	3
	11331	+ 3	+23	16	16	1
	11331	+ 6	+24	19	24	1
	11331	+ 6	+23	18	24	1
	11331	+ 8	+22	17	485	1
	11330	+38	+28	43	73	1
	11337	+53	+24	55	16	1

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U.T.	No.	Δl	φ	ρ	A	s
		°	°	°		
	11337	+54	+24	55	16	1
	(7)	(132)	(+6)		1160	25
8.616	11340	−80	−25	85	36	1
M–4	11340	−69	−24	76	61	1
	11339	−66	−17	71	73	2
	11339	−58	−19	66	32	2
	11342	−47	+22	49	6	1
	11336	− 8	+31	25	16	4
	11336	− 5	+29	24	6	2
	11336	− 4	+30	24	97	3
	11334	− 1	+23	16	12	5
	11332	+ 9	+22	17	24	8
	11332	+10	+21	16	12	8
	11332	+11	+21	17	6	1
	11331	+19	+23	24	6	1
	11331	+21	+21	25	388	1
	11330	+51	+27	54	48	6
	11337	+64	+25	65	12	1
	11337	+65	+24	66	16	3
	11337	+66	+24	67	12	2
	11337	+69	+24	69	24	2
	(9)	(118)	(+6)		887	54
9.606	11340	−54	−25	62	73	1
N–2	11339	−51	−18	56	121	1
	11339	−47	−18	54	24	1
	11339	−44	−19	52	48	1
	11336	+ 3	+28	23	24	2
	11336	+ 4	+29	23	12	1
	11336	+ 5	+28	23	24	1
	11336	+ 6	+28	24	97	1
	11332	+22	+21	26	24	2
	11332	+23	+21	26	12	1
	11331	+33	+21	36	436	1
	11341	+47	−23	55	48	1
	11341	+49	−22	56	12	1
	11341	+51	−24	59	24	1
	11330	+64	+29	65	36	1
	11330	+66	+27	67	24	1
	(7)	(105)	(+6)		1039	18
10.592	11340	−42	−26	53	36	1
N–2	11339	−37	−19	46	61	3
	11339	−37	−18	45	12	2
	11339	−36	−18	44	16	1
	11339	−35	−19	44	16	2
	11339	−34	−20	43	24	1
	11336	+17	+31	29	24	1
	11336	+19	+28	29	97	1
	11332	+36	+23	39	16	1
	11332	+36	+21	38	48	2
	11332	+37	+23	41	24	1
	11332	+39	+21	41	61	2
	11331	+46	+21	47	388	1
	(5)	(92)	(+6)		823	19
11.790	11340	−32	−26	46	12	1
N–1	11340	−28	−26	43	36	1
	11339	−24	−19	36	48	1
	11339	−23	−18	33	48	1
	11336	+35	+27	40	97	1
	11346	+35	−26	47	16	1
	11332	+51	+20	53	145	1
	11332	+53	+22	54	73	2
	11332	+57	+20	58	194	1
	11331	+62	+19	63	388	1
	(6)	(76)	(+6)		1057	11
12.571	11340	−17	−26	37	24	1
N–1	11336	+45	+27	48	97	1
	11346	+47	−26	57	24	1
	11332	+62	+21	63	145	1
	11332	+65	+23	66	121	1
	11332	+69	+21	69	121	1
	11331	+74	+21	74	388	1
	(5)	(66)	(+6)		920	7
13.568	11336	+58	+28	60	48	1
N–2	11332	+75	+22	75	97	1
	11332	+80	+23	79	145	1
	11331	+87	+21	86	436	1
	(3)	(53)	(+6)		726	4
14.612	(*)	−49	−21	56	6	1
M–4	(*)	−47	−22	55	6	1
	11347	−32	+28	36	6	2
	11347	−32	+29	37	12	2
	11339	+14	−18	28	12	2
	11339	+15	−19	29	24	5
	11339	+17	−18	31	12	1
	11336	+72	+30	73	12	2
	(4)	(39)	(+6)		90	16
15.628	11339	+29	−20	39	16	1
N–3	11339	+32	−20	41	16	1
	(1)	(26)	(+6)		32	2
16.615					0	0
N–2						
	(0)	(13)	(+6)		0	0

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U.T.	No.	Δl	φ	ρ	A	s
		°	°	°		
17.606					0	0
N–1						
	(0)	(0)	(+6)		0	0
18.557					0	0
N–2						
	(0)	(347)	(+6)		0	0
19.614	11349	–77	+20	77	97	1
M–2	11349	–70	+17	70	61	1
	(1)	(333)	(+6)		158	2
20.612	11351	–80	+25	80	145	1
M–3	11349	–66	+20	67	145	3
	11349	–64	+21	65	24	1
	11349	–59	+18	60	24	2
	11349	–56	+17	57	97	3
	11350	+13	+19	19	12	1
	(3)	(320)	(+5)		447	11
21.616	11351	–68	+25	69	145	2
M–3	11349	–53	+19	55	170	2
	11349	–52	+21	54	16	2
	11349	–51	+20	53	12	1
	11349	–46	+19	47	24	1
	11349	–46	+17	47	16	2
	11349	–45	+18	46	16	2
	11349	–44	+18	45	24	1
	11349	–43	+17	44	24	2
	11349	–42	+17	43	61	2
	11350	+24	+21	27	12	1
	(3)	(307)	(+5)		520	18
22.745	11352	–80	+28	80	194	1
M–2	11353	–78	–21	80	145	1
	11351	–53	+24	55	97	1
	11349	–37	+19	39	145	1
	11349	–36	+18	38	16	1
	11349	–36	+20	38	24	3
	11349	–34	+20	36	12	1
	11349	–33	+19	36	12	2
	11349	–32	+21	35	24	2
	11349	–31	+19	34	16	1
	11349	–28	+18	31	36	3
	11349	–27	+18	30	32	9
	11349	–26	+17	29	85	5
	(4)	(292)	(+5)		838	31
23.800	11354	–85	+26	85	48	1
M–2	11353	–75	–23	78	145	1
	11353	–73	–19	76	121	1
	11353	–65	–23	69	388	1
	11352	–67	+27	68	291	1
	11351	–41	+24	44	24	2
	11351	–38	+24	42	109	1
	11349	–24	+18	27	121	1
	11349	–23	+17	26	16	1
	11349	–23	+18	26	24	4
	11349	–22	+20	26	16	3
	11349	–18	+19	23	48	3
	11349	–17	+20	23	24	3
	11349	–14	+18	20	12	1
	11349	–13	+17	18	85	4
	11349	–11	+17	16	97	1
	(5)	(278)	(+5)		1569	29
24.713	11356	–77	–25	80	291	1
M–2	11354	–74	+26	77	73	2
	11354	–73	+28	76	24	1
	11354	–70	+28	73	24	2
	11353	–64	–23	68	97	4
	11353	–62	–24	66	36	4
	11353	–60	–19	63	48	2
	11353	–58	–24	63	24	3
	11353	–56	–24	62	24	3
	11353	–53	–23	58	533	3
	11352	–56	+27	57	388	1
	11351	–27	+24	33	97	1
	11355	–18	+ 8	19	24	1
	11355	–16	+10	16	24	2
	11349	–12	+17	16	97	2
	11349	–11	+17	16	24	3
	11349	–10	+17	16	6	3
	11349	– 9	+18	16	24	5
	11349	– 6	+17	14	6	1
	11349	– 6	+19	15	16	3
	11349	– 4	+17	14	12	2
	11349	– 2	+17	14	16	2
	11349	– 1	+16	13	12	2
	11349	+ 1	+16	13	24	4
	11349	+ 2	+16	12	73	4
	(7)	(266)	(+5)		2017	61
25.612	11356	–74	–25	77	36	1
M–4	11356	–74	–26	78	36	1
	11356	–67	–24	71	73	6
	11356	–64	–24	69	412	2
	11354	–62	+27	63	36	3
	11354	–61	+30	63	85	4
	11354	–56	+28	58	12	1
	11354	–54	+30	56	48	2
	11354	–52	+31	56	16	1
	11353	–51	–23	56	6	1
	11353	–50	–24	56	48	2

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U.T.	No.	Δl	φ	ρ	A	s
		°	°	°		
	11353	−49	−25	56	48	8
	11353	−48	−20	54	48	8
	11353	−48	−24	55	24	5
	11353	−46	−24	54	97	4
	11353	−44	−24	51	48	4
	11353	−39	−24	47	582	1
	11352	−46	+27	49	315	1
	11351	−16	+24	25	61	1
	11355	− 5	+10	7	12	1
	11349	− 3	+17	14	73	1
	11349	− 2	+18	15	48	4
	11349	− 1	+20	15	24	6
	11349	+ 1	+21	16	16	2
	11349	+ 1	+17	14	16	5
	11349	+ 2	+19	15	16	4
	11349	+ 3	+20	15	32	2
	11349	+ 5	+18	15	12	1
	11349	+13	+17	17	73	6
	(7)	(254)	(+5)		2353	88
26.610	11356	−61	−26	65	24	1
N−2	11356	−61	−27	66	36	1
	11356	−54	−26	60	73	2
	11356	−51	−26	57	533	1
	11354	−47	+26	51	24	1
	11354	−46	+28	50	73	1
	11354	−45	+28	49	16	2
	11354	−43	+29	47	16	1
	11354	−38	+29	43	121	1
	11354	−37	+28	43	36	2
	11353	−36	−23	45	73	1
	11353	−36	−24	45	73	2
	11353	−36	−25	46	73	2
	11353	−35	−21	43	73	2
	11353	−34	−23	43	48	1
	11353	−32	−23	41	242	3
	11353	−29	−24	41	48	1
	11353	−27	−23	38	630	1
	11352	−31	+27	36	339	1
	11351	−13	+26	24	32	1
	11351	− 3	+23	18	73	1
	11349	+13	+17	17	97	2
	11349	+13	+19	19	85	2
	11349	+14	+16	18	85	2
	11349	+16	+19	22	48	2
	11349	+16	+18	21	73	1
	11349	+26	+16	28	97	1
	(6)	(241)	(+5)		3141	39
27.560	11356	−49	−26	56	16	1
N−3	11356	−48	−26	55	24	1
	11356	−42	−25	50	24	1
	11356	−41	−26	50	48	1
	11356	−38	−25	48	485	2

U.T.	No.	Δl	φ	ρ	A	s
		°	°	°		
	11354	−35	+28	41	36	1
	11354	−34	+28	40	48	2
	11354	−31	+28	36	16	1
	11354	−27	+31	31	145	1
	11354	−26	+29	35	16	1
	11354	−26	+28	34	24	2
	11353	−25	−22	36	16	1
	11353	−25	−24	37	36	2
	11353	−25	−23	36	24	1
	11353	−18	−23	33	194	7
	11353	−17	−23	33	12	2
	11353	−16	−24	33	36	1
	11353	−14	−23	30	582	1
	11352	−20	+27	30	339	2
	11351	+10	+24	22	32	1
	11349	+24	+18	27	32	3
	11349	+24	+17	26	16	2
	11349	+25	+20	28	97	4
	11349	+25	+18	28	73	5
	11349	+26	+20	30	24	3
	11349	+26	+17	29	16	1
	11349	+27	+20	31	16	1
	11349	+28	+19	32	24	2
	(6)	(228)	(+5)		2451	53
28.628	11358	−80	+22	80	388	1
N−2	11356	−34	−26	45	36	1
	11356	−32	−26	44	48	2
	11356	−27	−26	41	73	3
	11356	−25	−25	38	485	1
	11354	−18	+29	30	16	1
	11354	−17	+30	30	16	2
	11354	−12	+31	27	121	1
	11354	−11	+29	26	36	1
	11359	−14	−21	28	36	1
	11359	−12	−23	29	36	1
	11353	− 7	−26	32	48	1
	11353	− 6	−22	26	24	2
	11353	− 4	−24	29	194	1
	11353	− 4	−22	26	48	2
	11353	− 1	−23	26	630	1
	11352	− 4	+28	25	339	1
	11357	+15	+27	26	32	3
	11351	+25	+24	31	36	1
	11349	+39	+18	41	36	1
	11349	+41	+20	43	73	1
	11349	+42	+18	44	73	4
	(9)	(214)	(+5)		2824	33
29.623	11358	−67	+23	68	218	1
M−3	11356	−22	−25	36	16	1
	11356	−17	−25	34	12	1
	11356	−16	−24	33	24	2
	11356	−14	−24	32	36	1

OCTOBER NOVEMBER

U.T.	No.	Δl	φ	ρ	A	s
		°	°	°		
	11356	−14	−21	29	61	3
	11356	−12	−23	29	412	1
	11354	− 9	+30	26	12	4
	11354	− 7	+30	26	48	5
	11354	− 5	+30	25	24	6
	11354	− 5	+31	26	16	2
	11354	− 3	+31	25	24	2
	11354	+ 1	+31	25	97	6
	11359	− 2	−20	25	73	4
	11359	+ 2	−21	26	24	3
	11359	+ 2	−23	27	32	4
	11353	+ 6	−22	27	16	1
	11353	+ 6	−19	25	12	1
	11353	+ 8	−23	28	145	6
	11353	+ 8	−21	26	97	8
	11353	+13	−22	29	485	3
	11353	+15	−20	29	16	1
	11352	+ 7	+28	25	291	1
	11357	+25	+28	34	24	1
	11357	+27	+27	34	12	1
	11357	+28	+27	35	16	1
	11349	+52	+22	54	24	1
	11349	+55	+20	56	97	1
	(8)	(201)	(+5)		2364	72
30.691	11358	−54	+22	55	315	1
N–3	11360	−33	+18	35	36	1
	11356	− 7	−26	31	16	1
	11356	− 3	−25	30	24	3
	11356	− 1	−26	31	24	2
	11356	+ 2	−25	29	485	3
	11356	+ 2	−23	28	48	3
	11354	+ 6	+28	24	121	4
	11354	+12	+29	27	12	1
	11354	+13	+29	27	61	3
	11354	+14	+29	27	61	1
	11359	+12	−22	28	73	4
	11359	+14	−23	30	61	2
	11359	+16	−22	31	16	1
	11353	+19	−22	33	36	2
	11353	+21	−21	33	24	2
	11353	+22	−21	34	24	1
	11353	+23	−25	36	194	4
	11353	+23	−24	36	24	1
	11353	+26	−24	38	24	1
	11352	+21	+27	30	339	1
	11357	+38	+26	42	73	4
	11357	+42	+28	46	12	1
	11357	+43	+28	46	24	1
	11349	+66	+19	67	16	1
	(9)	(187)	(+5)		2143	49
31.571	11358	−41	+22	43	242	1
N–2	11360	−20	+17	24	32	1

U.T.	No.	Δl	φ	ρ	A	s
		°	°	°		
	11356	+10	−26	31	24	1
	11356	+12	−24	30	12	1
	11356	+13	−27	34	24	1
	11356	+13	−23	29	24	1
	11356	+14	−26	33	388	1
	11356	+15	−23	30	16	1
	11354	+17	+28	30	97	2
	11354	+18	+28	31	12	1
	11354	+19	+28	31	48	2
	11354	+22	+27	32	24	2
	11354	+24	+27	33	36	2
	11354	+25	+29	35	97	3
	11354	+26	+29	36	61	1
	11359	+24	−23	35	73	2
	11359	+26	−23	36	61	1
	11359	+28	−22	38	16	1
	11352	+31	+26	36	291	1
	11353	+35	−25	44	145	3
	11353	+37	−23	45	582	1
	11357	+48	+26	52	73	1
	11361	+48	+13	50	73	1
	11361	+51	+13	52	24	1
	(9)	(175)	(+4)		2475	33
		Mean for 31 days $A = 1138, r = 75.7$				
1.607	11362	−73	−28	76	145	1
N–2	11358	−28	+22	34	388	1
	11356	+25	−25	37	48	1
	11356	+25	−23	36	97	1
	11356	+26	−25	38	436	1
	11356	+30	−23	39	61	1
	11354	+30	+29	38	267	1
	11354	+31	+27	38	73	1
	11354	+32	+28	39	73	1
	11354	+35	+29	42	48	2
	11354	+38	+29	45	291	1
	11359	+38	−23	46	85	1
	11359	+43	−23	49	61	2
	11352	+46	+27	50	388	1
	11353	+49	−24	55	145	2
	11353	+52	−23	56	727	1
	11361	+63	+15	63	73	1
	11361	+68	+15	68	48	1
	(8)	(162)	(+4)		3454	21
2.552	11362	−59	−29	66	170	1
N–3	11358	−16	+21	24	291	1
	11356	+37	−27	48	36	2
	11356	+38	−26	47	48	1
	11356	+41	−25	48	339	1
	11356	+42	−22	47	12	2
	11356	+44	−23	51	48	1

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U.T.	No.	Δl	φ	ρ	A	s
		°	°	°		
	11354	+41	+28	46	24	1
	11354	+42	+29	46	242	1
	11354	+43	+26	46	61	3
	11354	+44	+28	49	32	1
	11354	+49	+29	54	12	1
	11354	+51	+28	54	291	1
	11359	+52	−23	56	32	1
	11359	+56	−23	61	16	1
	11352	+59	+26	61	364	1
	11353	+64	−24	68	73	1
	11353	+66	−23	70	630	2
	11361	+78	+15	78	73	1
	(8)	(149)	(+4)		2794	24
3.551	11362	−48	−29	57	145	1
N–1	11358	− 3	+21	17	291	1
	11356	+53	−25	58	339	1
	11356	+56	−23	61	48	1
	11354	+54	+28	56	194	1
	11354	+64	+28	65	242	1
	11359	+64	−24	68	48	1
	11352	+70	+26	72	339	1
	11353	+80	−22	80	485	1
	(7)	(136)	(+4)		2131	9
4.551	11362	−36	−29	48	194	1
N–2	11358	+10	+21	19	218	1
	11356	+68	−24	72	388	1
	11356	+70	−22	74	48	1
	11354	+67	+28	70	194	1
	11354	+77	+28	78	242	1
	11352	+85	+25	85	388	1
	(5)	(123)	(+4)		1672	7
5.697	11363	−56	−19	60	61	2
N–2	11363	−53	−17	56	145	1
	11362	−19	−29	38	145	1
	11358	+25	+22	30	218	1
	11356	+82	−24	82	194	1
	(4)	(108)	(+4)		763	6
6.635	11364	−69	+28	70	24	1
N–2	11363	−45	−19	51	97	1
	11363	−40	−17	45	145	1
	11362	− 7	−29	34	145	1
	11358	+38	+22	42	218	1
	(4)	(95)	(+4)		629	5
7.669	11365	−76	−28	79	48	1
M–2	11365	−75	−29	79	36	1
	11365	−69	−29	74	291	2

U.T.	No.	Δl	φ	ρ	A	s
		′	′	°		
	11364	−58	+28	60	32	3
	11364	−58	+32	61	16	1
	11364	−53	+29	56	170	9
	11363	−31	−18	37	16	1
	11363	−30	−17	36	16	2
	11363	−29	−18	36	12	1
	11363	−25	−16	32	145	3
	11366	−23	−18	31	12	2
	11366	−19	−17	29	24	1
	11362	+ 6	−27	33	109	1
	11358	+51	+22	53	170	1
	(6)	(82)	(+4)		1097	29
8.593	11367	−84	+25	84	291	2
N–3	11367	−80	+24	80	485	2
	11365	−75	−31	77	485	1
	11365	−57	−30	64	48	2
	11365	−56	−30	64	291	1
	11364	−47	+29	52	61	1
	11364	−45	+28	50	24	1
	11364	−44	+27	47	48	2
	11364	−41	+28	45	121	2
	11363	−13	−17	25	97	1
	11366	−11	−20	26	48	2
	11366	− 6	−18	24	73	2
	11362	+18	−29	37	121	1
	11358	+65	+22	66	145	1
	(7)	(70)	(+4)		2338	21
9.590	11367	−76	+24	78	388	2
N–2	11367	−75	+22	77	97	2
	11367	−72	+24	74	97	1
	11367	−67	+24	69	48	1
	11367	−65	+23	66	48	2
	11367	−64	+23	66	727	3
	11367	−62	+24	65	24	1
	11365	−60	−31	66	533	1
	11365	−57	−32	64	48	1
	11365	−45	−30	54	61	1
	11365	−43	−31	54	170	1
	11369	−56	−45	68	16	1
	11369	−54	−43	66	12	1
	11369	−52	−44	66	24	1
	11364	−35	+27	42	97	1
	11364	−30	+26	36	48	1
	11364	−27	+27	36	121	1
	11363	+ 1	−18	22	73	1
	11366	+ 3	−21	24	36	1
	11366	+ 8	−20	25	73	1
	11362	+31	−29	44	24	1
	11362	+33	−28	45	121	1
	11358	+80	+22	80	145	1
	(8)	(56)	(+3)		3031	28

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U.T.	No.	Δl	φ	ρ	A	s
		°	°	°		
10.584	11367	−63	+24	65	436	3
N−3	11367	−62	+22	64	36	2
	11367	−61	+23	64	48	1
	11367	−60	+25	64	194	3
	11367	−54	+23	56	48	2
	11367	−51	+24	54	727	8
	11367	−48	+24	52	16	1
	11365	−48	−31	56	436	2
	11365	−45	−30	54	36	1
	11365	−45	−32	55	24	1
	11365	−45	−34	57	48	1
	11365	−44	−31	54	12	1
	11365	−37	−30	48	24	2
	11365	−34	−30	46	24	1
	11365	−29	−31	44	194	1
	11369	−45	−44	63	24	2
	11369	−39	−44	58	32	1
	11369	−38	−44	58	32	1
	11364	−23	+28	34	73	2
	11364	−19	+27	31	36	2
	11364	−16	+26	28	24	2
	11364	−14	+27	28	97	1
	11370	+ 5	+26	24	24	1
	11363	+14	−18	25	24	1
	11366	+23	−20	33	24	1
	11362	+46	−29	55	97	1
	11368	+47	+22	50	32	1
	11368	+50	+23	53	32	2
	11368	+52	+21	54	24	1
	11368	+55	+23	56	36	1
	(9)	(43)	(+3)		2914	50
11.576	11371	−59	+25	62	16	1
N−2	11367	−51	+24	55	436	3
	11367	−50	+23	53	48	1
	11367	−48	+25	52	97	1
	11367	−46	+25	49	24	2
	11367	−45	+25	48	36	1
	11367	−45	+24	48	24	2
	11367	−44	+24	46	24	2
	11367	−44	+26	48	48	2
	11367	−43	+24	46	24	1
	11367	−40	+25	44	533	1
	11367	−39	+22	42	291	5
	11367	−37	+24	42	145	4
	11365	−37	−29	48	436	2
	11365	−36	−32	49	24	1
	11365	−33	−33	47	48	3
	11365	−32	−31	45	48	1
	11365	−27	−31	43	48	2
	11365	−25	−29	41	24	1
	11365	−23	−30	39	24	1
	11365	−15	−30	36	97	1
	11369	−24	−43	51	61	1
	11364	−10	+28	26	16	1
	11364	− 2	+27	25	97	1
	11363	+27	−17	34	36	1
	11366	+36	−18	42	24	1
	11362	+59	−28	65	97	1
	11368	+61	+23	63	16	1
	11368	+67	+23	68	24	1
	(9)	(30)	(+3)		2866	46
12.569	11373	−80	+20	80	145	1
N−2	11371	−46	+25	50	32	1
	11367	−39	+25	44	388	3
	11367	−37	+23	41	24	1
	11367	−37	+26	42	97	5
	11367	−32	+26	38	73	2
	11367	−31	+27	38	61	1
	11367	−29	+24	35	48	1
	11367	−29	+26	36	48	2
	11367	−28	+23	34	73	1
	11367	−27	+24	34	24	1
	11367	−26	+25	34	145	2
	11367	−26	+23	32	436	3
	11367	−25	+21	30	194	1
	11367	−24	+23	31	194	2
	11365	−23	−31	40	388	3
	11365	−20	−30	37	24	1
	11365	−19	−31	38	24	2
	11365	−18	−30	37	24	2
	11365	−17	−33	39	36	1
	11365	−15	−29	36	24	1
	11365	−14	−30	35	48	1
	11365	−13	−29	35	24	2
	11365	− 9	−30	34	32	2
	11365	− 9	−29	34	97	2
	11365	− 3	−30	34	145	1
	11369	−19	−45	51	32	2
	11369	−10	−43	46	61	1
	11364	+ 3	+29	26	16	2
	11364	+11	+27	26	145	1
	11362	+70	−27	75	97	1
	(7)	(17)	(+3)		3199	52
13.612	11373	−73	+21	74	194	1
N−1	11373	−66	+19	67	194	2
	11373	−65	+17	66	48	3
	11373	−63	+18	64	97	2
	(*)	−44	−29	54	16	1
	11367	−26	+24	33	339	1
	11367	−25	+22	31	61	2
	11367	−24	+25	32	48	1
	11367	−23	+25	31	73	1
	11367	−23	+23	29	24	1
	11367	−21	+26	30	73	2
	11367	−18	+26	29	48	2
	11367	−17	+25	27	73	1

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U.T.	No.	Δl	φ	ρ	A	s
		°	°	°		
	11367	−16	+25	27	36	1
	11367	−15	+24	25	61	1
	11367	−15	+22	24	36	1
	11367	−14	+23	24	121	2
	11367	−13	+25	24	85	2
	11367	−13	+24	24	97	2
	11367	−13	+23	23	194	1
	11367	−12	+21	21	194	2
	11367	−11	+25	24	24	1
	11367	−11	+24	24	73	1
	11367	−11	+23	23	48	1
	11365	−12	−33	37	194	1
	11365	−11	−31	35	97	2
	11365	−10	−33	36	24	1
	11365	− 8	−31	35	61	1
	11365	− 7	−32	35	48	1
	11365	− 6	−32	35	48	1
	11365	− 5	−33	36	48	1
	11365	− 3	−30	34	48	1
	11365	− 1	−30	34	48	1
	11365	+ 1	−30	34	48	1
	11365	+ 4	−29	34	48	1
	11365	+11	−30	35	109	1
	11364	+25	+27	34	97	1
	(5)	(3)	(+3)		3175	49
14.689	11373	−60	+22	63	267	1
N−3	11373	−55	+18	56	24	1
	11373	−54	+20	55	61	1
	11373	−53	+19	54	73	2
	11373	−47	+19	49	97	1
	11367	−14	+24	25	291	1
	11367	−13	+23	24	32	1
	11367	−10	+26	25	48	1
	11367	− 8	+26	24	48	2
	11367	− 8	+23	22	36	1
	11367	− 7	+23	21	24	1
	11367	− 5	+24	22	170	6
	11367	− 3	+23	19	12	1
	11367	− 2	+24	21	16	1
	11367	− 1	+22	18	16	1
	11367	+ 1	+24	22	97	1
	11367	+ 1	+22	18	97	4
	11367	+ 2	+23	20	170	2
	11367	+ 3	+22	19	145	2
	11367	+ 3	+20	16	194	4
	11367	+ 4	+24	22	16	1
	11365	+ 2	−32	35	12	1
	11365	+ 2	−31	34	97	1
	11365	+ 3	−31	34	48	2
	11365	+ 4	−29	33	61	2
	11365	+ 5	−30	34	36	1
	11365	+ 6	−32	35	16	3
	11365	+ 6	−30	34	48	3
	11365	+10	−30	35	12	1
	11365	+14	−29	36	16	1
	11365	+24	−29	39	85	1
	11372	+26	+16	28	24	2
	11372	+26	+17	30	73	2
	11372	+28	+17	32	73	2
	11372	+31	+16	34	32	1
	11372	+32	+17	34	36	2
	11372	+33	+17	35	48	3
	11372	+34	+17	36	48	1
	11364	+38	+26	43	73	1
	(5)	(348)	(+3)		2772	66
15.585	11373	−48	+21	51	218	1
N−2	11373	−44	+20	45	48	1
	11373	−42	+19	44	48	2
	11373	−38	+19	41	48	1
	11373	−36	+19	38	97	1
	11367	− 1	+24	23	242	1
	11367	+ 4	+25	23	12	1
	11367	+ 6	+23	21	12	1
	11367	+ 6	+24	22	16	2
	11367	+ 7	+23	21	16	2
	11367	+ 8	+24	23	145	4
	11367	+12	+22	22	48	1
	11367	+13	+25	25	73	1
	11367	+14	+23	24	388	4
	11367	+15	+20	23	145	2
	11367	+16	+24	25	48	1
	11365	+12	−31	35	97	2
	11365	+12	−32	36	16	1
	11365	+13	−31	35	24	2
	11365	+13	−34	39	16	1
	11365	+14	−30	36	48	1
	11365	+15	−30	36	48	1
	11365	+16	−31	37	36	1
	11365	+17	−30	37	32	1
	11365	+28	−28	42	48	1
	11365	+36	−30	47	85	1
	11372	+36	+16	37	48	1
	11372	+40	+17	42	145	2
	11372	+43	+17	44	36	1
	11372	+44	+17	45	61	1
	11372	+45	+17	46	48	1
	11372	+46	+18	48	145	1
	11364	+52	+27	56	85	1
	(5)	(337)	(+3)		2622	46
16.740	11373	−33	+22	36	170	1
N−1	11373	−24	+20	28	36	1
	11373	−21	+20	26	61	1
	11373	−19	+20	25	85	1
	11367	+15	+25	26	242	1
	11367	+19	+25	29	16	1
	11367	+24	+25	32	24	1

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U.T.	No.	Δl	φ	ρ	A	s
		°	°	°		
	11367	+26	+24	33	97	1
	11367	+28	+25	34	48	1
	11367	+28	+23	34	48	1
	11367	+30	+24	35	97	2
	11367	+30	+23	34	339	2
	11367	+31	+21	34	170	2
	11365	+26	−31	42	24	1
	11365	+30	−33	46	24	1
	11365	+32	−32	46	61	1
	11365	+43	−29	53	24	1
	11365	+53	−30	61	73	1
	11372	+53	+17	54	48	2
	11372	+56	+17	57	194	2
	11372	+63	+17	64	61	1
	11372	+65	+17	66	97	1
	(4)	(322)	(+3)		2039	27
17.557	11373	−23	+21	28	194	3
N−2	11373	−13	+18	20	48	1
	11373	− 8	+19	17	48	1
	11373	− 7	+18	16	97	1
	11367	+24	+26	34	242	2
	11367	+28	+26	35	24	1
	11367	+31	+24	36	61	1
	11367	+34	+25	39	16	1
	11367	+36	+25	41	36	2
	11367	+37	+25	42	97	2
	11367	+39	+23	42	291	4
	11367	+40	+24	44	73	2
	11367	+41	+21	43	145	1
	11365	+53	−29	61	48	1
	11365	+55	−27	61	48	1
	11365	+55	−30	62	36	1
	11365	+57	−28	63	36	1
	11365	+65	−30	70	36	1
	11372	+62	+17	63	61	1
	11372	+65	+17	66	97	2
	11372	+74	+16	75	170	1
	(4)	(311)	(+3)		1904	31
18.555	11373	−11	+21	22	97	2
N−3	11373	−10	+21	22	24	1
	11373	− 5	+19	18	24	1
	11373	− 5	+18	17	24	1
	11373	+ 4	+18	17	32	1
	11373	+ 5	+18	17	73	1
	11374	+30	+16	33	61	1
	11374	+33	+16	35	24	4
	11367	+36	+25	42	218	5
	11367	+43	+24	46	16	1
	11367	+44	+22	47	24	1
	11367	+49	+24	53	97	4
	11367	+51	+23	54	242	3
	11367	+52	+24	55	24	1
	11367	+52	+21	54	170	2
	11365	+65	−32	69	97	2
	11365	+69	−28	73	48	1
	(4)	(298)	(+2)		1295	32
19.692	11376	−80	−20	80	388	1
M−2	11375	−47	−21	52	24	1
	11375	−42	−23	46	12	1
	11375	−39	−22	45	16	2
	11373	0	+18	16	12	1
	11373	+ 4	+23	21	48	1
	11373	+ 5	+23	21	48	2
	11373	+ 5	+22	20	36	4
	11373	+ 6	+23	22	6	3
	11373	+ 6	+21	20	16	1
	11373	+ 8	+21	21	6	1
	11373	+18	+19	20	24	2
	11373	+19	+19	26	73	1
	11374	+46	+17	48	36	1
	11374	+48	+16	51	16	2
	11367	+51	+26	54	194	3
	11367	+54	+25	56	24	2
	11367	+64	+25	65	73	2
	11367	+67	+23	68	388	3
	11365	+80	−30	79	73	1
	(6)	(283)	(+2)		1513	35
20.651	11378	−76	+27	78	291	1
N−1	11377	−74	+27	76	339	1
	11376	−66	−20	68	582	1
	11373	+17	+22	26	73	1
	11373	+18	+22	26	121	1
	11373	+23	+20	28	61	1
	11373	+34	+19	37	48	1
	11367	+65	+26	67	97	1
	11367	+70	+24	72	121	1
	11367	+82	+22	82	436	1
	(5)	(271)	(+2)		2169	10
21.565	11379	−80	−26	80	121	1
N−2	11378	−64	+26	66	291	1
	11377	−60	+26	64	291	1
	11376	−57	−18	60	24	1
	11376	−56	−19	59	48	1
	11376	−54	−21	57	727	1
	11373	+28	+22	34	24	1
	11373	+29	+22	34	73	1
	11373	+44	+18	46	24	1
	11373	+44	+17	46	24	1
	11367	+75	+25	77	73	1
	(6)	(259)	(+2)		1720	11

NOVEMBER

U.T.	No.	Δl	φ	ρ	A	s
		°	°	°		
22.554	11379	−68	−25	72	145	1
N–2	11378	−61	+31	64	97	1
	11378	−53	+27	56	267	1
	11377	−49	+27	54	242	1
	11376	−43	−22	47	85	1
	11376	−41	−21	45	582	1
	(4)	(246)	(+2)		1418	6
23.681	11380	−60	+43	66	48	1
N–2	11381	−54	+24	56	48	1
	11381	−54	+26	56	36	1
	11379	−48	−24	54	170	1
	11378	−45	+30	51	32	1
	11378	−45	+28	51	73	1
	11378	−44	+27	48	97	1
	11378	−37	+26	44	291	2
	11378	−36	+24	42	36	1
	11377	−34	+26	41	218	1
	11376	−24	−20	33	485	1
	(6)	(231)	(+2)		1534	12
24.633	11380	−50	+44	62	48	1
N–1	11381	−43	+27	47	121	1
	11381	−38	+28	45	24	1
	11379	−39	−25	46	97	1
	11378	−32	+30	41	97	2
	11378	−26	+27	35	218	1
	11377	−22	+27	34	218	1
	11376	−21	−20	29	36	1
	11376	−18	−21	29	48	1
	11376	−17	−19	27	97	2
	11376	−13	−21	26	485	1
	(6)	(218)	(+2)		1489	13
25.736	11380	−44	+45	58	12	2
M–4	11380	−39	+44	55	24	5
	11380	−38	+43	54	6	2
	11380	−36	+46	55	32	4
	11380	−36	+43	52	16	1
	11380	−35	+44	53	16	3
	11380	−33	+45	52	16	3
	11381	−31	+29	39	6	1
	11381	−27	+27	36	6	2
	11381	−27	+28	36	12	2
	11381	−26	+26	34	48	3
	11381	−25	+26	34	12	1
	11381	−25	+28	35	12	2
	11381	−21	+27	33	12	2
	11379	−26	−26	37	121	1
	11378	−16	+30	33	16	4
	11378	−14	+27	30	12	4
	11378	−13	+26	26	6	1
	11378	−11	+26	26	170	4
	11376	− 7	−22	25	6	1
	11376	− 6	−20	24	48	11
	11376	− 6	−21	24	36	10
	11376	− 4	−22	25	6	1
	11376	− 3	−20	23	73	8
	11376	− 2	−19	22	73	16
	11376	0	−22	24	6	1
	11376	+ 1	−21	23	436	4
	11377	− 6	+26	26	170	1
	(6)	(204)	(+2)		1409	100
26.716	11385	−63	+26	65	6	1
M–3	11380	−34	+46	54	6	1
	11380	−29	+45	51	48	3
	11380	−28	+46	51	12	2
	11380	−24	+46	50	36	3
	11380	−23	+45	48	24	6
	11380	−21	+45	47	36	2
	11381	−16	+27	31	12	2
	11381	−16	+28	32	12	2
	11381	−15	+29	32	12	3
	11381	−14	+27	30	16	1
	11381	−13	+26	28	24	4
	11381	−11	+27	28	16	5
	11379	−13	−26	30	109	1
	11378	− 4	+30	29	16	3
	11378	− 1	+26	25	16	3
	11378	+ 1	+27	26	170	2
	11377	+ 4	+26	26	170	1
	11376	+ 6	−21	23	97	8
	11376	+ 9	−19	24	61	3
	11376	+ 9	−18	22	6	1
	11376	+10	−18	23	48	2
	11376	+11	−22	25	6	1
	11376	+12	−18	24	6	1
	11376	+14	−20	26	436	4
	(7)	(191)	(+1)		1401	65
27.634	11386	−75	+22	76	145	2
N–2	11380	−17	+44	45	48	2
	11380	−12	+44	44	36	1
	11380	−11	+44	44	24	1
	11380	−10	+44	44	48	1
	11381	− 3	+27	26	48	1
	11381	− 1	+26	25	48	1
	11381	+ 1	+27	26	61	1
	11381	+ 3	+27	26	73	1
	11379	− 2	−26	26	97	1
	11378	+13	+26	27	218	2
	11377	+16	+26	30	218	1
	11376	+19	−22	29	73	4
	11376	+23	−21	32	73	1
	11376	+24	−20	32	48	1

NOVEMBER DECEMBER

U.T.	No.	Δl	φ	ρ	A	s
		°	°	°		
	11376	+25	−20	33	73	2
	11376	+26	−22	34	582	3
	(7)	(179)	(+1)		1913	26
28.583	11387	−76	−26	78	630	1
N−2	11388	−76	+22	77	48	1
	11386	−74	+21	75	145	1
	11386	−70	+21	71	97	1
	11386	−63	+23	65	194	1
	11386	−60	+23	62	16	1
	11380	− 6	+44	44	61	1
	11380	+ 1	+44	43	85	2
	11380	+ 2	+44	44	61	1
	11381	+ 8	+28	29	24	1
	11381	+ 9	+27	28	24	2
	11381	+13	+26	28	48	1
	11381	+16	+27	31	73	1
	11379	+11	−26	29	73	1
	11378	+25	+27	35	97	2
	11378	+26	+26	35	145	1
	11377	+29	+26	37	194	1
	11376	+33	−21	38	73	1
	11376	+35	−20	40	73	1
	11376	+39	−21	44	582	1
	(9)	(166)	(+1)		2743	23
29.590	11387	−70	−27	75	242	3
N−2	11387	−61	−26	65	485	1
	11388	−66	+21	67	48	1
	11388	−61	+23	64	97	2
	11388	−60	+21	62	121	1
	11386	−48	+23	52	97	1
	11380	+15	+44	45	61	1
	11379	+24	−26	35	73	1
	11378	+37	+26	44	61	1
	11378	+38	+26	44	73	1
	11378	+38	+29	46	170	1
	11377	+42	+26	46	170	1
	11376	+47	−23	52	48	1
	11376	+49	−22	53	36	1
	11376	+54	−22	56	582	2
	(8)	(153)	(+1)		2364	19
30.596	11387	−58	−28	63	242	1
N−2	11387	−48	−26	54	545	2
	11388	−53	+21	55	121	1
	11388	−53	+23	56	48	1
	11388	−52	+23	55	97	2
	11388	−50	+23	54	73	2
	11388	−48	+21	51	73	1
	11388	−47	+23	51	194	4
	11388	−46	+21	49	85	2
	11386	−36	+22	41	97	1
	11380	+26	+43	48	48	1
	11379	+37	−25	44	73	1
	11378	+49	+28	54	73	1
	11378	+51	+27	56	194	1
	11377	+55	+26	59	194	1
	11376	+66	−22	68	485	1
	(8)	(140)	(+1)		2642	23
	Mean for 30 days, A=2100, r=92.1					
1.594	11387	−45	−29	53	145	1
N−2	11387	−36	−27	45	73	2
	11387	−35	−26	43	388	1
	11388	−40	+23	44	73	1
	11388	−39	+22	43	97	1
	11388	−39	+25	44	48	1
	11388	−38	+24	44	36	1
	11388	−35	+24	41	73	1
	11388	−34	+23	39	194	4
	11388	−34	+22	39	73	1
	11388	−32	+22	36	24	1
	11388	−32	+21	36	61	3
	11386	−23	+22	30	85	1
	11380	+40	+44	55	24	1
	11379	+50	−26	55	36	1
	11378	+63	+27	65	24	1
	11378	+65	+26	67	133	1
	11377	+67	+25	68	145	1
	11376	+79	−21	79	582	1
	(8)	(126)	(+1)		2314	25
2.715	11387	−31	−25	39	16	1
M−2	11387	−31	−26	39	32	1
	11387	−30	−28	42	12	1
	11387	−23	−26	35	16	1
	11387	−23	−27	36	32	2
	11387	−19	−26	34	364	3
	11388	−25	+24	33	61	1
	11388	−24	+23	32	97	2
	11388	−24	+25	33	97	6
	11388	−22	+26	33	24	2
	11388	−20	+23	28	24	2
	11388	−19	+25	31	73	4
	11388	−18	+23	27	85	3
	11388	−18	+24	29	32	3
	11388	−17	+23	27	32	4
	11388	−16	+25	28	170	6
	11388	−16	+23	26	36	5
	11388	−13	+23	25	16	1
	11386	− 6	+23	23	97	1
	11380	+54	+45	64	16	1
	11379	+64	−25	66	24	2
	11378	+79	+26	79	194	1

DECEMBER

U.T.	No.	Δl	φ	p	A	s
		°	°	°		
	11377	+82	+26	82	194	1
	(7)	(112)	(+1)		1744	54
3.704	11390	−72	−15	74	16	1
M–2	11387	−18	−27	34	12	1
	11387	−17	−26	32	6	1
	11387	−16	−26	32	12	4
	11387	−16	−29	34	32	1
	11387	−16	−25	31	12	3
	11387	−13	−28	33	16	1
	11387	−13	−30	34	24	2
	11387	−12	−28	33	6	2
	11387	−11	−26	29	12	1
	11387	− 8	−27	30	24	2
	11387	− 6	−26	28	291	2
	11388	−12	+24	25	97	4
	11388	−11	+23	24	73	2
	11388	−10	+24	24	85	8
	11388	− 8	+26	26	48	4
	11388	− 7	+23	23	36	5
	11388	− 6	+24	24	6	1
	11388	− 5	+23	22	36	5
	11388	− 5	+26	25	16	2
	11388	− 5	+24	23	6	2
	11388	− 4	+24	22	97	10
	11388	− 3	+24	23	121	8
	11388	− 3	+23	21	12	1
	11388	− 2	+22	21	73	6
	11388	0	+22	20	73	4
	11386	+ 5	+23	22	73	1
	(4)	(99)	(+1)		1315	84
7.733	11394	−57	+22	60	12	1
M–3	11393	−37	+27	45	16	2
	11393	−36	+30	45	16	4
	11393	−36	+28	44	16	2
	11393	−35	+33	46	24	4
	11393	−34	+32	45	16	2
	11393	−31	+27	40	6	1
	11393	−30	+27	40	48	2
	11393	−30	+29	42	24	5
	11392	−29	+33	43	48	3
	11392	−24	+31	37	16	3
	11392	−24	+34	41	16	1
	11392	−24	+33	40	24	5
	11392	−22	+33	38	12	4
	11392	−22	+27	35	6	2
	11390	−23	−17	28	48	4
	11390	−21	−17	26	12	2
	11390	−17	−17	25	73	3
	11391	+ 7	−20	23	24	2
	11388	+37	+23	43	73	1
	11388	+39	+23	44	24	6
	11388	+40	+23	45	6	2

U.T.	No.	Δl	φ	p	A	s
		°	°	°		
	11388	+44	+24	49	24	4
	11388	+45	+23	49	121	8
	11388	+46	+24	51	170	2
	11388	+46	+21	50	16	2
	11387	+46	−26	52	242	5
	(7)	(45)	(0)		1133	82
8.624	11393	−27	+30	39	16	1
N–2	11393	−26	+29	38	24	2
	11393	−23	+28	36	16	1
	11393	−23	+31	37	32	1
	11393	−22	+32	37	24	1
	11393	−19	+27	34	36	1
	11393	−18	+26	32	97	1
	11393	−18	+28	34	32	1
	11393	−17	+31	34	32	1
	11392	−13	+32	34	16	1
	11392	−12	+30	32	16	1
	11390	−10	−17	21	36	1
	11390	− 6	−17	19	61	1
	11388	+50	+22	54	97	1
	11388	+51	+22	54	61	1
	11388	+54	+23	57	97	1
	11388	+57	+21	60	194	2
	11388	+57	+23	60	97	1
	11388	+59	+23	62	291	1
	11387	+59	−26	63	194	1
	(5)	(33)	(0)		1469	22
9.906	11397	−17	−26	31	16	1
M–2	11397	−16	−26	30	16	4
	11397	−15	−26	30	12	2
	11397	−14	−25	29	61	2
	11393	− 9	+29	31	16	1
	11393	− 7	+28	30	12	1
	11393	− 5	+32	32	6	1
	11393	− 4	+28	29	16	2
	11393	− 3	+29	29	16	4
	11393	− 3	+30	31	16	1
	11393	− 2	+27	27	48	5
	11393	− 2	+30	31	24	1
	11393	− 1	+30	31	6	1
	11392	0	+33	33	6	1
	11392	+ 2	+33	33	6	2
	11392	+ 4	+34	35	12	1
	11392	+ 4	+33	34	24	4
	11390	+ 8	−17	20	12	2
	11390	+12	−17	21	32	3
	11396	+23	−17	28	12	3
	11396	+26	−17	32	16	2
	11395	+24	−21	32	16	3
	11395	+25	−22	33	16	1
	11388	+66	+24	69	16	1
	11388	+68	+24	71	24	2

DECEMBER

U.T.	No.	Δl	φ	ρ	A	s
		°	°	°		
	11388	+70	+24	73	32	1
	11388	+76	+24	78	145	2
	11388	+76	+23	77	145	2
	11387	+76	−25	77	145	1
	(8)	(17)	(0)		924	57
10.683	11397	− 7	−26	27	73	1
N−1	11397	− 4	−25	25	97	1
	11393	+ 1	+28	28	73	1
	11393	+ 2	+26	26	73	1
	11393	+ 6	+29	31	109	1
	11393	+ 7	+28	30	36	1
	11392	+14	+31	34	48	1
	11390	+23	−17	29	61	1
	(4)	(7)	(0)		570	8
11.639	11398	−73	+25	75	436	1
N−2	11397	+ 5	−25	26	73	2
	11397	+11	−24	26	97	1
	11393	+13	+29	33	61	1
	11393	+14	+26	30	12	1
	11393	+14	+28	32	24	1
	11393	+14	+25	29	97	1
	11393	+15	+25	29	48	1
	11393	+15	+27	32	12	3
	11393	+16	+26	31	194	1
	11393	+18	+28	34	48	1
	11393	+20	+27	34	12	1
	(3)	(354)	(0)		1114	15
12.612	11398	−80	+27	80	121	1
N−2	11398	−79	+28	79	121	1
	11398	−61	+25	65	436	1
	11397	+18	−26	31	16	1
	11397	+19	−25	31	16	1
	11397	+25	−25	34	73	2
	11393	+24	+26	36	61	1
	11393	+25	+27	37	121	3
	11393	+26	+24	35	170	3
	11393	+27	+25	36	16	1
	11393	+29	+27	40	24	1
	11393	+31	+26	40	291	1
	11393	+33	+27	42	36	1
	(3)	(341)	(−1)		1502	18
13.612	11402	−76	−33	79	145	1
N−3	11402	−74	−33	76	109	1
	11398	−63	+26	66	97	1
	11398	−51	+24	56	24	1
	11398	−48	+25	54	339	1
	11401	−56	+34	62	16	1
	11400	−39	+21	44	16	1

U.T.	No.	Δl	φ	ρ	A	s
		°	°	°		
	11393	+35	+26	44	73	2
	11393	+36	+27	44	85	1
	11393	+37	+32	48	36	2
	11393	+38	+25	45	73	2
	11393	+39	+26	47	48	2
	11393	+41	+30	50	48	1
	11393	+43	+26	50	436	4
	11397	+38	−25	44	48	1
	(6)	(328)	(−1)		1593	22
14.606	11402	−60	−32	64	242	1
N−2	11402	−58	−33	63	97	1
	11398	−50	+26	56	61	1
	11398	−46	+26	53	24	1
	11398	−37	+25	44	16	1
	11398	−35	+25	42	339	2
	11400	−25	+23	34	16	1
	11400	−24	+21	33	12	1
	11400	−22	+22	31	12	1
	11393	+51	+28	57	48	2
	11393	+53	+28	59	16	1
	11393	+53	+26	57	16	1
	11393	+53	+25	56	32	1
	11393	+55	+26	60	73	3
	11393	+56	+26	61	291	1
	(4)	(315)	(−1)		1295	19
15.609	11402	−47	−31	54	48	1
N−2	11402	−46	−32	53	291	1
	11398	−37	+26	45	32	1
	11398	−35	+26	44	97	3
	11398	−22	+26	35	291	2
	11400	−14	+23	26	121	3
	11400	−12	+24	27	24	2
	11400	−11	+21	24	73	2
	11400	− 9	+21	24	24	2
	11400	− 6	+21	23	73	1
	11400	− 6	+22	24	16	1
	11393	+70	+26	74	339	2
	(4)	(302)	(−1)		1429	21
16.618	11402	−34	−32	44	339	1
N−2	11402	−33	−30	43	24	1
	11398	−23	+26	35	48	2
	11398	−21	+25	33	24	1
	11398	− 8	+25	26	242	3
	11400	− 1	+23	24	36	1
	11400	+ 2	+21	22	24	1
	11400	+ 4	+24	25	24	1
	11400	+ 5	+24	26	61	1
	11400	+ 5	+23	24	61	1
	11400	+ 6	+21	23	48	2
	11400	+ 7	+22	24	48	1

DECEMBER

U.T.	No.	Δl	φ	ρ	A	s
		°	°	°		
	11400	+ 8	+21	23	315	1
	(3)	(288)	(−1)		1294	17
17.805	11407	−76	−20	77	145	1
N−1	11402	−18	−32	35	267	1
	11398	+ 6	+25	26	121	1
	11398	+ 7	+26	27	97	1
	11400	+15	+23	28	61	1
	11400	+19	+24	32	194	1
	11400	+22	+21	30	16	1
	11400	+24	+20	33	16	1
	11400	+26	+21	34	436	1
	(4)	(273)	(−1)		1353	9
18.674	11408	−71	−17	72	6	2
M−4	11408	−68	−17	69	16	1
	11407	−64	−22	65	97	1
	11402	−14	−32	34	16	5
	11402	− 6	−33	33	194	6
	11402	− 5	−32	31	16	6
	11398	+ 1	+27	28	6	3
	11398	+ 2	+25	25	6	1
	11398	+ 3	+26	26	6	2
	11398	+15	+24	29	24	4
	11398	+16	+25	31	32	6
	11398	+17	+26	32	61	1
	11398	+18	+26	33	6	2
	11398	+19	+26	34	6	2
	11406	+16	−22	26	12	2
	11406	+18	−20	26	12	4
	11406	+21	−21	27	24	3
	11406	+23	−20	28	12	1
	11400	+25	+23	33	32	6
	11400	+26	+20	33	6	1
	11400	+27	+24	36	97	2
	11400	+29	+23	36	48	5
	11400	+29	+22	36	24	4
	11400	+32	+20	37	6	2
	11400	+36	+20	41	315	2
	(6)	(261)	(−1)		1080	74
19.630	11408	−59	−17	60	97	1
N−1	11408	−53	−17	54	48	1
	11407	−49	−21	52	145	1
	11402	+ 6	−33	33	291	1
	11398	+15	+26	31	16	1
	11398	+30	+24	38	121	1
	11398	+31	+25	39	97	1
	11400	+41	+24	46	145	1
	11400	+43	+23	48	97	1
	11400	+44	+23	49	97	1
	11400	+47	+21	51	121	1

U.T.	No.	Δl	φ	ρ	A	s
		°	°	°		
	11400	+50	+21	54	242	2
	(5)	(249)	(−1)		1517	13
20.605	11410	−64	+23	66	24	1
N−2	11409	−53	+29	59	16	1
	11412	−50	+22	54	16	1
	11408	−46	−17	48	194	1
	11408	−45	−18	46	32	1
	11408	−42	−18	44	24	2
	11408	−41	−17	43	61	1
	11408	−39	−17	42	170	3
	11407	−36	−21	39	121	1
	11407	−35	−24	40	24	1
	11411	− 8	+34	36	12	1
	11411	− 7	+32	34	16	1
	11402	+17	−33	35	267	1
	11398	+41	+24	46	73	2
	11398	+43	+25	49	97	1
	11406	+45	−20	47	32	1
	11406	+48	−20	51	24	1
	11400	+53	+24	57	73	2
	11400	+54	+24	59	12	1
	11400	+56	+24	61	24	1
	11400	+59	+21	63	73	2
	11400	+62	+21	65	291	1
	(10)	(236)	(−2)		1676	28
21.599	11410	−52	+24	56	24	1
N−3	11412	−36	+22	43	32	1
	11412	−35	+22	41	6	1
	11412	−33	+22	39	24	1
	11408	−34	−17	36	315	2
	11408	−32	−17	34	12	1
	11408	−32	−18	35	16	1
	11408	−31	−18	34	24	1
	11408	−27	−17	31	36	2
	11408	−26	−17	30	97	1
	11408	−25	−16	28	194	2
	11407	−24	−21	31	170	1
	11402	+30	−34	43	32	2
	11402	+31	−32	41	291	3
	11402	+32	−30	41	16	1
	11398	+57	+25	62	61	1
	11400	+66	+25	70	121	3
	11400	+68	+24	70	32	2
	11400	+76	+22	78	339	2
	(7)	(223)	(−2)		1842	29
22.697	11413	−59	+36	66	6	1
M−3	11413	−57	+35	65	12	2
	11413	−52	+34	60	32	4
	11410	−36	+22	43	12	1
	11412	−19	+22	30	24	2

DECEMBER

U.T.	No.	Δl	φ	ρ	A	s
		°	°	°		
	11412	−15	+20	26	16	2
	11408	−19	−18	26	194	4
	11408	−19	−19	26	73	2
	11408	−16	−20	24	6	1
	11408	−12	−17	20	194	4
	11407	− 9	−22	22	73	1
	11411	+24	+29	38	12	1
	11402	+44	−34	52	194	8
	11398	+71	+26	75	12	2
	(8)	(208)	(−2)		860	35
26.717	11417	−70	−27	72	97	2
N–1	11416	−65	+22	68	145	3
	11415	−21	+22	31	73	1
	11415	−20	+21	30	24	1
	11415	−18	+21	28	48	1
	11414	− 4	+26	28	32	1
	11408	+34	−16	36	194	1
	11408	+42	−15	43	85	1
	11408	+43	−14	44	36	1
	(5)	(155)	(−2)		734	12
27.597	11417	−59	−26	63	73	1
N–2	11416	−56	+22	61	48	1
	11416	−55	+24	60	97	1
	11416	−52	+22	56	121	2
	11416	−52	+26	57	16	1
	11416	−50	+24	55	121	1
	11415	−10	+23	26	24	1
	11415	− 4	+21	23	36	1
	11418	+16	+24	31	61	1
	11408	+44	−17	45	194	1
	11408	+53	−16	54	48	1
	(5)	(144)	(−2)		839	12
28.600	11420	−80	−23	80	48	1
N–2	11417	−46	−26	50	73	1
	11416	−42	+24	48	24	1
	11416	−41	+23	46	32	1
	11416	−37	+22	44	97	1
	11416	−36	+24	44	291	1
	11415	+ 3	+23	26	16	1
	11415	+ 8	+22	25	24	1
	11415	+ 9	+21	25	12	1
	11418	+31	+25	41	97	1

U.T.	No.	Δl	φ	ρ	A	s
		°	°	°		
	11408	+59	−17	61	218	1
	(6)	(131)	(−3)		932	11
30.677	11420	−61	−27	64	24	2
M–4	11420	−58	−26	62	32	4
	11420	−56	−25	59	16	4
	11420	−54	−24	56	12	5
	11420	−53	−23	55	24	5
	11420	−50	−23	53	73	2
	11417	−19	−25	28	16	1
	11422	−17	+18	27	12	3
	11422	−15	+18	26	12	1
	11416	−16	+25	33	12	1
	11416	−15	+25	32	16	5
	11416	−14	+26	32	6	1
	11416	−12	+26	32	24	3
	11416	−11	+22	26	32	2
	11416	− 9	+24	29	73	8
	11419	− 5	+21	24	6	3
	11419	− 4	+21	24	6	2
	11415	+31	+25	41	97	3
	11415	+32	+23	41	6	1
	11415	+32	+22	39	6	1
	11415	+33	+23	41	6	1
	11415	+33	+22	41	48	6
	11415	+34	+22	42	16	6
	11421	+50	+33	59	6	1
	11418	+59	+26	64	12	1
	11408	+85	−17	85	145	1
	(9)	(103)	(−3)		738	73
31.599	11420	−49	−28	54	24	1
N–2	11420	−47	−27	52	48	1
	11420	−40	−24	44	36	1
	11420	−38	−24	43	97	1
	11416	− 4	+25	28	48	1
	11416	− 3	+26	30	97	2
	11416	0	+26	30	145	2
	11416	+ 1	+23	25	36	1
	11416	+ 2	+24	27	73	1
	11415	+43	+25	49	121	1
	11415	+46	+22	51	121	1
	(3)	(91)	(−3)		846	13

Mean for 24 days

$A = 1255$, $r = 87.2$

3/28/56